Product Environmental Profile

USB based wireless adapter RP-C-EXT-MS-BLE
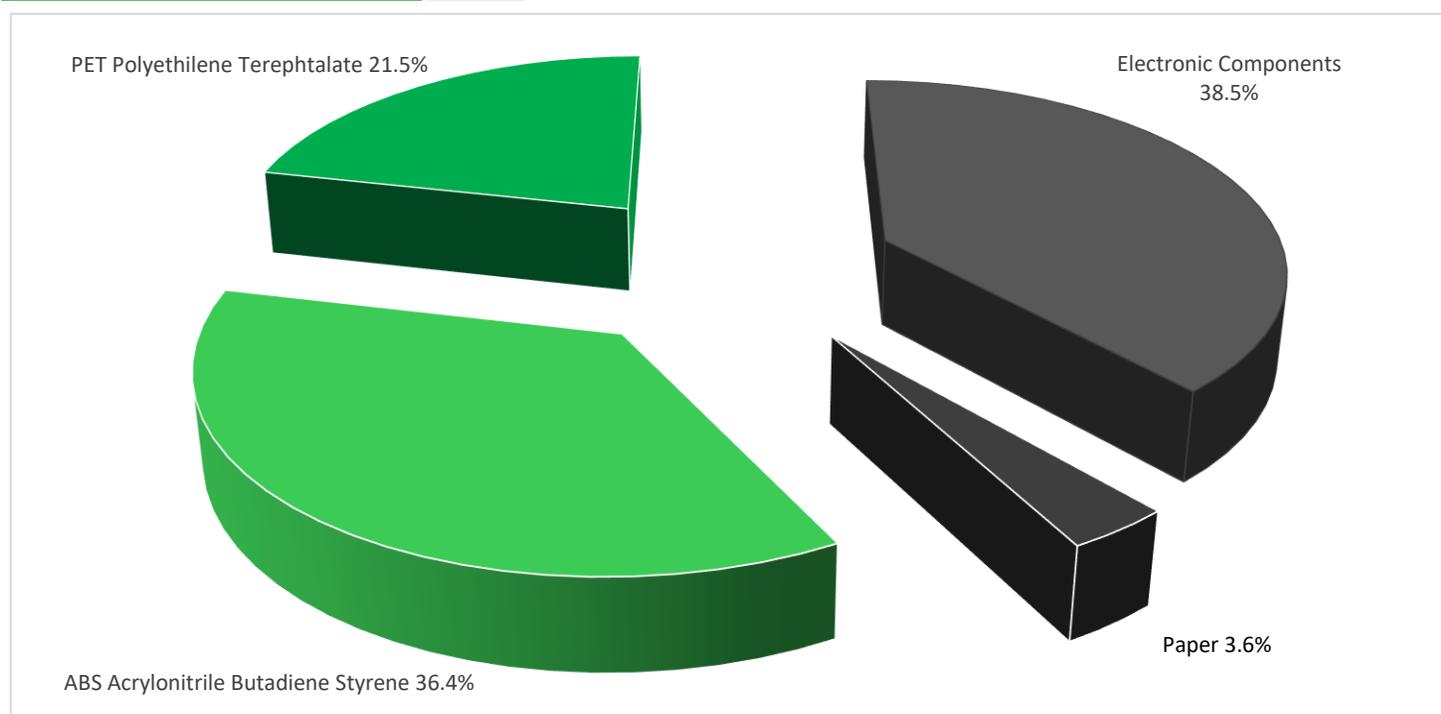
General information

Representative product	USB based wireless adapter RP-C-EXT-MS-BLE - SXWZBAUSB10001
Description of the product	The SmartX Zigbee Adapter is a USB-based wireless adapter that enables ZigbeeTM wireless connectivity for your SmartX server or SmartX IP controller, extending its point count and bringing flexibility in your retrofit applications.
Functional unit	The SmartX Zigbee Adapter is a USB-based wireless transceiver maximizing the transmission and reception of signals from distributed Zigbee devices during 10 years using 4mA @ 5VDC and a 100% use rate. The transceiver is not a controller.

Constituent materials

Reference product mass	9.68 g	including the product and it's packaging

PET Polyethilene Terephtalate 21.5%

Electronic Components 38.5%

Paper 3.6%

ABS Acrylonitrile Butadiene Styrene 36.4%

	Plastics	57.9%
	Metals	0.0%
	Others	42.1%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

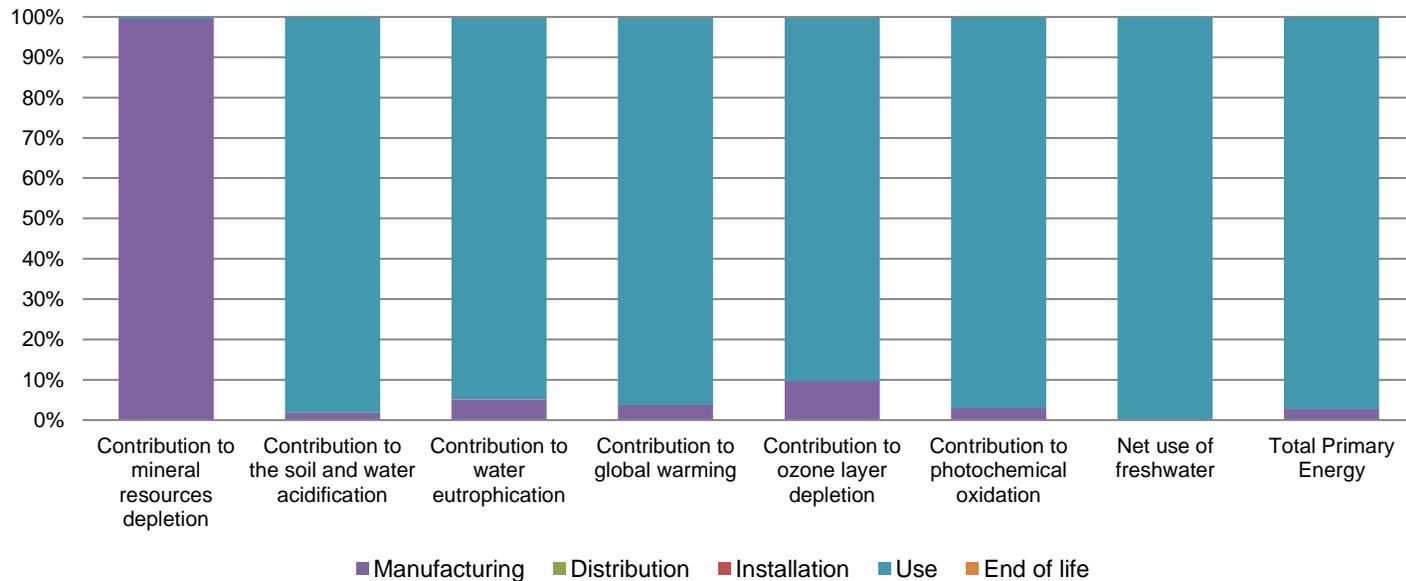| The USB based wireless adapter RP-C-EXT-MS-BLE presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 2.1 g, consisting of plastic (75%), paper (25%) Product distribution optimised by setting up local distribution centres
Installation	SXWZBAUSB10001 does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains electronic cards (3.7g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **50%** — Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	10 years
Product category	Other equipments - Active product
Installation elements	The transport of packaging for disposal, and the disposal are accounted for in the installation phase.
Use scenario	PSR0005, sec. 3.13 Other Equipment, Active Products Category 2 - 100% active mode, 0.2W over 10 years
Geographical representativeness	Europe, US, China
Technological representativeness	The SmartX Zigbee Adapter is a USB-based wireless adapter that enables ZigbeeTM wireless connectivity for your SmartX server or SmartX IP controller, extending its point count and bringing flexibility in your retrofit applications.

Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Sweden	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV;

Compulsory indicators		USB based wireless adapter RP-C-EXT-MS-BLE - SXWZBAUSB10001				
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.19E-04	1.19E-04	0*	0*	5.87E-07	0*
Contribution to the soil and water acidification	kg SO_2 eq	3.05E-02	5.52E-04	5.70E-06	0*	2.99E-02	4.01E-06
Contribution to water eutrophication	kg PO_4^{3-} eq	2.60E-03	1.34E-04	1.31E-06	6.94E-07	2.46E-03	1.99E-06
Contribution to global warming	kg CO_2 eq	9.93E+00	3.81E-01	1.25E-03	0*	9.54E+00	6.24E-03
Contribution to ozone layer depletion	kg CFC11 eq	5.03E-07	4.88E-08	0*	0*	4.54E-07	2.22E-10
Contribution to photochemical oxidation	kg C_2H_4 eq	1.95E-03	5.80E-05	4.07E-07	0*	1.89E-03	3.32E-07
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2.37E+01	6.50E-03	0*	0*	2.37E+01	0*
Total Primary Energy	MJ	1.81E+02	5.11E+00	0*	0*	1.76E+02	0*

■ Manufacturing ■ Distribution ■ Installation ■ Use ■ End of life

Optional indicators		USB based wireless adapter RP-C-EXT-MS-BLE - SXWZBAUSB10001					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.20E+02	3.68E+00	1.75E-02	0*	1.16E+02	1.41E-02
Contribution to air pollution	m³	6.02E+02	3.41E+01	0*	0*	5.68E+02	1.23E-01
Contribution to water pollution	m³	4.57E+02	3.72E+01	2.05E-01	0*	4.19E+02	2.69E-01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.59E-05	1.59E-05	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.93E+01	1.54E-01	0*	0*	1.91E+01	0*
Total use of non-renewable primary energy resources	MJ	1.62E+02	4.95E+00	1.76E-02	0*	1.57E+02	1.72E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.93E+01	1.48E-01	0*	0*	1.91E+01	0*
Use of renewable primary energy resources used as raw material	MJ	6.10E-03	6.10E-03	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.61E+02	4.69E+00	1.76E-02	0*	1.57E+02	1.72E-02
Use of non renewable primary energy resources used as raw material	MJ	2.63E-01	2.63E-01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2.94E-01	1.85E-01	0*	0*	9.33E-02	1.57E-02
Non hazardous waste disposed	kg	2.50E+01	1.06E-01	0*	0*	2.49E+01	0*
Radioactive waste disposed	kg	1.62E-02	6.57E-05	0*	0*	1.62E-02	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5.27E-03	4.49E-04	0*	8.62E-04	0*	3.96E-03
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.69E-03	0*	0*	0*	0*	1.69E-03
Exported Energy	MJ	2.07E-04	2.06E-04	0*	1.03E-06	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	SCHN-00461-V01.01-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH39	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	05/2020	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010	
Internal	External X

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2016

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

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